**AWS Class Notes**

**EC2 Dashboard**

**Features associated with EC2 Instances**

1. **Security Groups –** Required to create an EC2 instance
   1. What is the role of a security group?
      1. By Default, Security Groups will block all access into EC2 instance unless allowed
   2. How do you create a security?
   3. How do you associate a SG to an existing Server?
2. **Instance Types**
   1. What is an instance type and how is it related to an EC2 instance?
   2. How do you change the instance type for an existing EC2 instance?
3. **EIP (Elastic Internet Protocol)**
   1. What is an EIP?
   2. How do you create an EIP?
   3. How do you associate it to an EC2 instance?
4. Snapshots
5. **AMI** (Amazon Machine Image)
   1. What is an AMI
   2. How to create a custom AMI from an existing EC2 instance
   3. How to Copy an AMI from one region to another
6. **EBS** (Elastic Block Storage)
   1. This is a storage volume
   2. The main storage within our EC2 instance
      1. Required for storing data
      2. Required for installing software
7. **Snapshots**
   1. How do we backup our EC2 instances
      1. The way to take backup of our EC2 instance/EBS Volumes
      2. A Snapshots is a recovery plan for an EC2 instance to restore in the event of a disaster.
   2. How do you create a snapshot?
      1. EBS volume
      2. EC2 instance
   3. How do we copy a snapshot from one region to another?
   4. How do you create an EBS volume from a snapshot?
   5. How do we create an AMI from a snapshot?
8. **Backup in AWS**
   1. **RTO** – Recovery Time Objective
      1. How much time can a server be offline/down?
      2. What is the downtime for a particular server/server?
   2. **RPO** – Recovery Point Object
      1. How much data can be lost for an EC2 instance in the even of a disaster?
      2. The specified time indicated by app team or respective development team will match the criterial for the backup plan. E.g Daily backup or Monthly backup
9. **AMI – Amazon Machine Image**
   1. How do you create an AMI from an EC2 instance?
   2. How do we launch/create an EC2 instance from a custom AMI?
      1. By launching from AMI
      2. By selecting “My AMI”
10. **Lifecycle Manager**
    1. Automate the backup of EC2 instances or EBS volumes
       1. Assigning custom tags to these resources and using the tags are backup source.

**Homework:**

How can you copy a snapshot from one AWS account to another?

1. Share with my account number 1727-7514-0033